



Construction and Demolition Debris Recycling

Solid Waste Planning and Recycling • 5469 Kearny Villa Rd, Suite 305 • San Diego, CA 92123

Materials Conversion Table - Separated Materials

This worksheet lists materials typically generated from a construction or demolition project and provides formulas for converting common units (i.e., cubic yards, square feet, and board feet) to tons. It should be used for preparing your Debris Management Plan, which requires that quantities be provided in tons.

Step 1

Enter the estimated quantity for each applicable material in Column I, based on units of cubic yards (cy), square feet (sq ft), or board feet (bd ft).

Step 2

Multiply by Tons/Unit figure listed in Column II. Enter the result for each material in Column III. If using Excel version, column III will automatically calculate tons.

Step 3

Enter quantities for each separated material from Column III on this worksheet into the corresponding section of your Debris Management Plan.

For your final calculations, use the actual quantities, based on weight tags, gate receipts, or other documents.

Category	Material	Column I		Column II	Column III
		Volume	Unit	Tons/Unit	Tons
Asphalt/Concrete	Asphalt (broken)		cy	x 0.70	=
	Concrete (broken)		cy	x 1.20	=
	Concrete (solid slab)		cy	x 1.30	=
Brick/Masonry/Tile	Brick (broken)		cy	x 0.70	=
	Brick (whole, palletized)		cy	x 1.51	=
	Masonry Brick (broken)		cy	x 0.60	=
	Tile		sq ft	x 0.00175	=
Building Materials (doors, windows, cabinets, etc.)			cy	x 0.15	=
Cardboard (flat)			cy	x 0.05	=
Carpet	By square foot		sq ft	x 0.0005	=
	By cubic yard		cy	x 0.30	=
Carpet Padding/Foam			sq ft	x 0.000125	=
Ceiling Tiles	Whole (palletized)		sq ft	x 0.0003	=
	Loose		cy	x 0.09	=
Drywall (new or used)	1/2" (by square foot)		sq ft	x 0.0008	=
	5/8" (by square foot)		sq ft	x 0.00105	=
	Demo/used (by cubic yd)		cy	x 0.25	=
Earth	Loose/Dry		cy	x 1.20	=
	Excavated/Wet		cy	x 1.30	=
Landscape Debris (brush, trees, etc)			cy	x 0.15	=
Mixed Debris	Construction		cy	x 0.18	=
	Demolition		cy	x 1.19	=
Scrap metal			cy	x 0.51	=
Unpainted Wood & Pallets	By board foot		bd ft	x 0.001375	=
	By cubic yard		cy	x 0.15	=
Garbage/Trash			cy	x 0.18	=

Total All 0